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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-178857

(43)Date of publication of application : 28.08.2002

(51)Int.Cl.

B60R 16/02
H04B 1/034

(21)Application number : 2000-379104

(71)Applicant : CAR MATE MFG CO LTD

(22)Date of filing : 13.12.2000

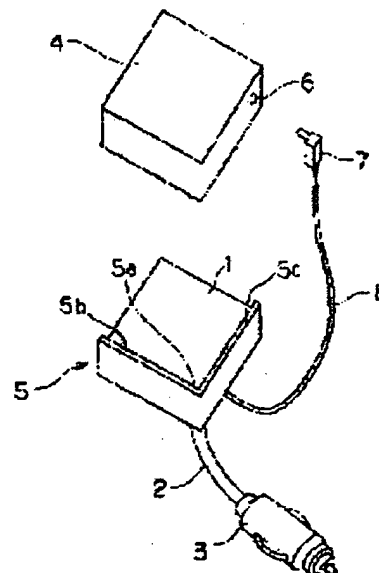
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(54) TRANSMITTER DEVICE FOR VEHICLE

(57)Abstract:

PROBLEM TO BE SOLVED: To solve the problem that the replacement of a battery and the manufacturing of a case are troublesome and that a means for fixing a transmitter onto a vehicle is separately required when fitting the transmitter in order to listen to the sound from various sound regenerating devices such as an MD player or a receiver device by using an on-vehicle audio device.

SOLUTION: This transmitter device for the vehicle is formed of a transmitter 1 for transmitting the sound from the sound regenerating device 4 through radio communication and a plug 3 connected to the transmitter and to be inserted into a cigar lighter socket. The transmitter is provided with a sound regenerating device holder 5. The transmitter is connected to the cigar lighter plug or the sound regenerating device holder through a support bar 2.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

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CLAIMS

[Claim(s)]

[Claim 1] Transmitter equipment for cars characterized by consisting of a transmitter which transmits the output signal from a voice regenerative apparatus on radio, and a plug inserted in the cigar-lighter socket for cars which connected with the above-mentioned transmitter at one.

[Claim 2] Transmitter equipment for cars characterized by consisting of a plug inserted in the cigar-lighter socket for cars which connected the output signal from a voice regenerative apparatus with the transmitter transmitted on radio and the above-mentioned transmitter through posture controller material.

[Claim 3] Transmitter equipment for cars according to claim 1 or 2 characterized by connecting the voice regenerative-apparatus holder with the above-mentioned transmitter through posture controller material.

[Claim 4] Transmitter equipment for cars according to claim 1 or 2 characterized by forming a voice regenerative-apparatus holder in the above-mentioned transmitter at one.

[Claim 5] Transmitter equipment for cars according to claim 3 or 4 with which the above-mentioned voice regenerative-apparatus holder is characterized by having the depression of the shape of an angle type holding the above-mentioned voice regenerative apparatus.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the transmitter equipment for cars which has the transmitter transmitted to various kinds of voice regenerative apparatus, such as a plug inserted in the transmitter equipment for cars, especially the cigar-lighter socket of a car, MD player and an MP3 player, and a cellular phone, or the audio equipment of mount of the voice from a receiving set by wireless.

[0002]

[Description of the Prior Art] In order to hear it conventionally using various kinds of voice regenerative apparatus, such as MD player, an MP3 player, and a cellular phone, or the audio equipment of mount of the voice from a receiving set, the transmitter which transmits voice to audio equipment on radio needed to be attached in the above-mentioned voice regenerative apparatus, or the microphone and the player needed to be beforehand built in the transmitter.

[0003]

[Problem(s) to be Solved by the Invention] However, the cell or the external electric supply code was required for the above-mentioned transmitter, and exchange of a cell and processing of wiring were troublesome. Moreover, a means to fix the above-mentioned transmitter was required for the car separately. Furthermore, in order to attach a voice regenerative apparatus in the body of a transmitter, there was a fault that it was required to use a double-sided tape for the body of a transmitter or a voice regenerative apparatus for a surface fastener or a magnet, and to attach etc., and processing was troublesome.

[0004] Moreover, the microphone or the player with a transmitter built-in [above-mentioned] cannot be used except the microphone or player.

[0005] This invention removes the above faults.

[0006]

[Means for Solving the Problem] It is characterized by the transmitter equipment for the cars of this invention consisting of a transmitter which transmits the output signal from a voice regenerative apparatus on radio, and a plug inserted in the cigar-lighter socket for cars which connected with the above-mentioned transmitter at one.

[0007] Moreover, it is characterized by the transmitter equipment for the cars of this invention consisting of a plug inserted in the cigar-lighter socket for cars which connected the output signal from a voice regenerative apparatus with the transmitter transmitted on radio and the above-mentioned transmitter through posture controller material.

[0008] Moreover, the transmitter equipment for the cars of this invention is characterized by connecting the voice regenerative-apparatus holder with the above-mentioned transmitter through posture controller material.

[0009] Moreover, in the transmitter equipment for the cars of this invention, the above-mentioned transmitter is characterized by forming a voice regenerative-apparatus holder in one.

[0010] Moreover, in the transmitter equipment for the cars of this invention, the above-mentioned voice regenerative-apparatus holder is characterized by having the depression of the shape of an angle type holding the above-mentioned voice regenerative apparatus.

[0011]

[Embodiment of the Invention] A drawing explains the example of this invention below.

[0012] As the transmitter equipment for the cars of this invention is shown in drawing 1, the rectangular parallelepiped-like body 1 of a transmitter, the plug 3 inserted in the cigar-lighter socket connected with the whole surface of the above-mentioned body 1 of a transmitter through the turnable bearing bar 2, with the electrode-holder section 5 which consists of the heights 5b and 5c prepared in the above-mentioned body 1 of a transmitter in order to form depression 5a of the shape of an angle type for the above-mentioned body 1 of a transmitter being alike on the other hand, and holding the corner of the rectangular parallelepiped-like voice regenerative apparatus 4 aslant. It consists of a connecting plug 7 inserted in the output terminal 6 of the above-mentioned voice regenerative apparatus 4, and a code 8 which connects electrically between the above-mentioned bodies 1 of a transmitter with this connecting plug 7.

[0013] Since the transmitter equipment for the cars of this invention is the above configurations, by inserting a plug 3 in the cigar-lighter socket (not shown) of a car, it can fix the body 1 of a transmitter to a car through a bearing bar 2, and can transmit the voice of the voice regenerative apparatus 4 without a cell to audio equipment.

[0014] Moreover, since the voice regenerative apparatus 4 can be aslant held by the electrode-holder section 5, the stability of the maintenance at the time of transit becomes unnecessary [the surface fastener for installation, a magnet, a double-sided tape, etc.] greatly. In addition, the voice regenerative apparatus of configurations other than a rectangular parallelepiped can be held similarly.

[0015] Moreover, since the corner of the voice regenerative apparatus 4 was held through angle-type-like depression 5a with the above-mentioned body 1 of a transmitter, it can respond also to the voice regenerative apparatus 4 of different magnitude broadly.

[0016] In addition, since the above-mentioned bearing bar 2 is turnable, the location of the electrode-holder section 5 to a car and the sense can be adjusted to arbitration, and the voice regenerative apparatus 4 can be made into the optimal location and the sense.

[0017] moreover, adjustment of spacing of the heights 5b and 5c of the electrode-holder section 5 is enabled, and movable in Heights 5b and 5c — if free and it closes, the voice regenerative apparatus 4 can be fixed firmly.

[0018] Drawing 2 shows other examples of the transmitter equipment for the cars of this invention, carries out connection immobilization of the direct plug 3 in this example at the body 1 of a transmitter, and attaches the electrode-holder equipment 9 which holds the voice regenerative apparatus 4 through the bearing bar 2 which can be freely crooked on this body 1 of a transmitter.

[0019] In this example of this invention, the sense and location of electrode-holder equipment 9 are changeable into arbitration regardless of the sense of the body 1 of a transmitter with a bearing bar 2.

[0020] the example of further others of this invention — setting — as a plug — AC100 — it enables it to connect with the terminal which can carry out a USB terminal and other electric supply V plug socket

[0021] Moreover, you may enable it to supply electric power not only to a transmitter but to a voice regenerative apparatus etc. from a plug 3.

[0022] A regenerative apparatus is utilizable not only in voice but the form replaced with the reader of data, such as an image and CD—

ROM.

[0023]

[Effect of the Invention] According to the transmitter equipment for the cars of this invention, the voice of a voice regenerative apparatus can be enjoyed without all wiring / anchoring processings with mounted audio equipment as mentioned above.

[0024] Moreover, it is stabilized with a holder, the voice regenerative apparatus 4 can be held, and there are big profits -- the voice regenerative apparatus 4 can be made into the optimal location and the sense by the bearing bar 2.

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TECHNICAL FIELD

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PRIOR ART

[Description of the Prior Art] In order to hear it conventionally using various kinds of voice regenerative apparatus, such as MD player, an MP3 player, and a cellular phone, or the audio equipment of mount of the voice from a receiving set, the transmitter which transmits voice to audio equipment on radio needed to be attached in the above-mentioned voice regenerative apparatus, or the microphone and the player needed to be beforehand built in the transmitter.

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EFFECT OF THE INVENTION

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] However, the cell or the external electric supply code was required for the above-mentioned transmitter, and exchange of a cell and processing of wiring were troublesome. Moreover, a means to fix the above-mentioned transmitter was required for the car separately. Furthermore, in order to attach a voice regenerative apparatus in the body of a transmitter, there was a fault that it was required to use a double-sided tape for the body of a transmitter or a voice regenerative apparatus for a surface fastener or a magnet, and to attach etc., and processing was troublesome.

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MEANS

[Means for Solving the Problem] It is characterized by the transmitter equipment for the cars of this invention consisting of a transmitter which transmits the output signal from a voice regenerative apparatus on radio, and a plug inserted in the cigar-lighter socket for cars which connected with the above-mentioned transmitter at one.

[0007] Moreover, it is characterized by the transmitter equipment for the cars of this invention consisting of a plug inserted in the cigar-lighter socket for cars which connected the output signal from a voice regenerative apparatus with the transmitter transmitted on radio and the above-mentioned transmitter through posture controller material.

[0008] Moreover, the transmitter equipment for the cars of this invention is characterized by connecting the voice regenerative-apparatus holder with the above-mentioned transmitter through posture controller material.

[0009] Moreover, in the transmitter equipment for the cars of this invention, the above-mentioned transmitter is characterized by forming a voice regenerative-apparatus holder in one.

[0010] Moreover, in the transmitter equipment for the cars of this invention, the above-mentioned voice regenerative-apparatus holder is characterized by having the depression of the shape of an angle type holding the above-mentioned voice regenerative apparatus.

[0011]

[Embodiment of the Invention] A drawing explains the example of this invention below.

[0012] As the transmitter equipment for the cars of this invention is shown in drawing 1, the rectangular parallelepiped-like body 1 of a transmitter. The plug 3 inserted in the cigar-lighter socket connected with the whole surface of the above-mentioned body 1 of a transmitter through the turnable bearing bar 2, with the electrode-holder section 5 which consists of the heights 5b and 5c prepared in the above-mentioned body 1 of a transmitter in order to form depression 5a of the shape of an angle type for the above-mentioned body 1 of a transmitter being alike on the other hand, and holding the corner of the rectangular parallelepiped-like voice regenerative apparatus 4 aslant. It consists of a connecting plug 7 inserted in the output terminal 6 of the above-mentioned voice regenerative apparatus 4, and a code 8 which connects electrically between the above-mentioned bodies 1 of a transmitter with this connecting plug 7.

[0013] Since the transmitter equipment for the cars of this invention is the above configurations, by inserting a plug 3 in the cigar-lighter socket (not shown) of a car, it can fix the body 1 of a transmitter to a car through a bearing bar 2, and can transmit the voice of the voice regenerative apparatus 4 without a cell to audio equipment.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the perspective view of the transmitter equipment for the cars of this invention.

[Drawing 2] It is the perspective view of other examples of the transmitter equipment for the cars of this invention.

[Description of Notations]

- 1 Body of Transmitter
- 2 Bearing Bar
- 3 Plug
- 4 Voice Regenerative Apparatus
- 5 Electrode-Holder Section
- 5a Depression
- 5b Heights
- 5c Heights
- 6 Output Terminal
- 7 Connecting Plug
- 8 Code
- 9 Electrode-Holder Equipment

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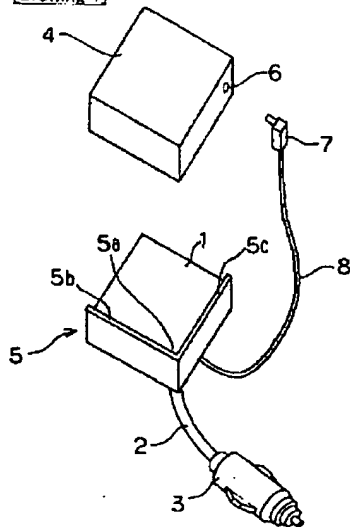
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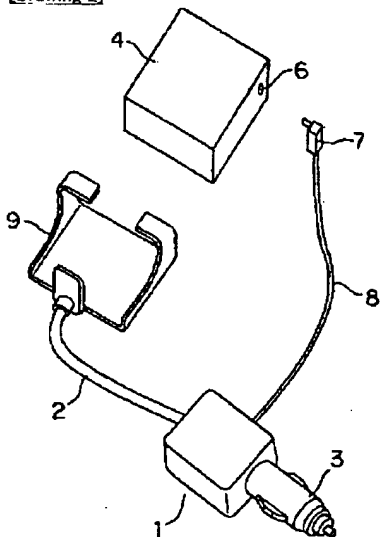
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DRAWINGS

[Drawing 1]



[Drawing 2]



[Translation done.]